u.s.s.n. 10,769,245

Claim Amendments

Please amend claims 1-3, 5, 11-13, 15, and 16 as follows: Please cancel claims 4, 6, 7, 9, 10, 14, and 17-20 as follows: Please add new claims 21 - 30 as follows:

Claims as Amended

1. (currently amended) A method of cleaning a wafer surface, comprising the steps of:

providing a wafer surface comprising at least one of a metal and a dielectric layer;

providing a surfactant composition solution;

subjecting said water <u>surface</u> to a plurality of polishing steps;

applying said surfactant composition solution to said wafer <u>surface</u> after at least one of said plurality of polishing steps to render said wafer <u>surface</u> hydrophilic; and

then rinsing said wafer surface.

2. (currently amended) The method of claim 1 wherein said applying said surfactant composition solution to said wafer comprises applying said surfactant composition to said wafer



after completion of said plurality of polishing steps.

- 3. (currently amended) The method of claim 1 wherein said surfactant composition solution comprises an aqueous alcohol. solution.
- 4. cancelled
- 5. (currently amended) The method of claim 1 wherein said rinsing said wafer surface comprises providing deionized water and rinsing said wafer using said deionized water.
- 6. cancelled
- 7. cancelled
- 8. (original) The method of claim 3 wherein said aqueous alcohol solution comprises from about 0.01% to about 1% alcohol by volume.
- 9. cancelled

10. cancelled

- 11. (currently amended) The method of claim [[8]] $\underline{3}$ wherein said alcohol comprises octanol.
- 12. (currently amended) The method of claim [[8]] 3 further comprising ethylene oxide in said aqueous alcohol solution.
- 13. (currently amended) A method of cleaning a hydrophobic wafer surface, comprising the steps of:

providing a wafer surface comprising at least one of a
metal and a dielectric layer;

providing a surfactant composition solution comprising an aqueous alcohol solution;

subjecting said wafer surface to a plurality of polishing steps;

applying said surfactant composition solution to said wafer $\underline{\text{surface}}$ after each of said plurality of polishing steps $\underline{\text{to}}$

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form a hydrophilic surface; and

rinsing said wafer surface with water.

14. cancelled

- 15. (currently amended) The method of claim 13 [[14]] wherein said aqueous alcohol—solution surfactant composition solution comprises from about 0.01% to about 1% alcohol by volume.
- 16. (currently amended) The method of claim [[15]] 13 further comprising ethylene oxide in said aqueous alcohol solution surfactant composition solution.

Claims 17- 20 cancelled

- 21. (new) The method of claim 1, wherein the steps of applying said surfactant composition solution and rinsing are carried out after each of said plurality of polishing steps.
- 22. (new) The method of claim 1, wherein said plurality of polishing steps comprises a copper polishing step.

- 23. (new) The method of claim 1, said plurality of polishing steps comprises an oxide polishing step.
- 24. (new) The method of claim 1, wherein said plurality of polishing steps comprises a low-K oxide polishing step.
- 25. (new) The method of claim 1, wherein said plurality of polishing steps comprises a metal nitride polishing step.
- 26. (new) The method of claim 1, wherein said surfactant composition solution comprises an alcohol having the formula $C_0H_{2n-1}OII$, where n is any one of the integers A-12.
- 27. (new) The method of claim 13, wherein said plurality of polishing steps comprises a copper polishing step.
- 28. (new) The method of claim 13, said plurality of polishing steps comprises an oxide polishing step.
- 29. (new) The method of claim 13, wherein said plurality of polishing steps comprises a low-K oxide polishing step.

30. (new) The method of claim 13, wherein said plurality of polishing steps comprises a metal nitride polishing step.